

ENFORCEMENT

INSPECTION AND SAMPLING REPORT

FACT SHEET

Project Number: 8449
Facility ID Number: 11138
Current Permit Number: 11138-0
11138-5
Facility Name: Belmont Plating Works, Inc.
Address: 3410 N River Road
City/State/Zip: Franklin Park, IL 60131

Field Inspector: Steven Spiewak
Inspection Date(s): 11/05/2013
Associated Task(s): Annual Pretreatment Inspection

Sample Location with Samples: 2A

First Sample Date: 11/04/2013

Last Sample Date: 11/07/2013

PCO I: [Signature] Submittal Date: 11/21/13

PCO II: [Signature] Approval Date: 11-29-13

Area Supervisor: [Signature] Approval Date: 12/4/2013

ENFORCEMENT EVALUATION:



In Compliance



Violation (check one)

Appendix/Section: _____ Details: (since 11/2012!) cl

Enforcement Number: _____ Action: _____

Comments: Max Zn 2.223 11/5/13

Evaluated by: [Signature] Date: 3/5/2014

INSPECTION AND SAMPLING REPORT

Inspection Contact Name: Robert Bethel

Title: Plant Manager

Items Addressed During the Inspection and Sampling Study

The facility's production levels during the inspection/sampling study:

Average. See narrative.

Number of Employees at the Facility:

75

Any changes in facility information?

No

Any facility safety concerns reported or observed?

Yes

Open floor trenches, slippery floors, and degraded walkways near plating lines and P/T system.

Any Direct Discharge Measurement Meter(s) malfunctions reported or observed?

na

Any significant changes to and/or problems with the facility's process operations reported or observed?

No

Any significant changes to and/or problems with the facility's pretreatment system reported or observed?

No

Has documentation been provided that ensures that the facility's pretreatment system is operated by a person who has been certified by the IEPA?

Yes

Javier DeJesus

INSPECTION AND SAMPLING REPORT

Additional items addressed during the Annual Pretreatment Inspection and Sampling Study

Has inspection revealed any discrepancies with information contained in the facility's current Discharge Authorization?

No

Has inspection revealed any discrepancies with information contained in the facility's current Spill Prevention Control and Countermeasure Plan?

No

Does the facility use any cyanide in its process operations?

Yes

Copper and sodium cyanide for copper and cadmium plating, respectively.

Does the facility use any organic chemicals in its process operations?

No

Any Flammable, Volatile, Explosive, and/or Corrosive materials in excess of 50 gallons that could potentially be discharged to the sewerage system?

Yes

HCl-2000 g tank; NaOCl-800 g tank; H2SO4-three 55 g drums; HNO3-one 55 g drum.

Does the potential exist for a slug discharge to the sewerage system?

See next question.

Has adequate protection been provided to prevent an accidental discharge of prohibited materials to the sewerage system?

Yes

It appears that adequate protection has been provided to prevent an accidental discharge, barring a fire, accident, etc.

If regulated under 40 CFR 442, has inspection revealed any discrepancies with information contained in the facility's Pollutant Management Plan (PMP)?

No

Is the facility regulated under production-based effluent limitations?

No

The facility's average production rate for the previous year:

INSPECTION AND SAMPLING REPORT

The facility's current production rate:

INSPECTION AND SAMPLING REPORT

Description of industrial process(es)

The company is a job shop electroplater/metal finisher, conducting cadmium (cyanide), copper (cyanide), zinc (chloride), tin, chrome, nickel and electroless nickel plating.

Description of wastewater pretreatment system

The P/T system consists of chrome reduction, cyanide destruct, neutralization, chemical precipitation (flocculation), clarification, sand filtration, polishing filtration, final pH adjustment, sludge thickening and filter press.

Narrative

The company was sampled for Annual Pretreatment purposes at Station 2A, from 11/ 4-8 /13, per Project # 8449.

Samples collected included four TMM, One cyanide (one-hour composite), one FOG, one pH, and one hexchrome.

No sampling problems were encountered during the study.

Two inspections were conducted by the writer; On 11/5/13, the P/T system was inspected, accompanied by Mr. Javier DeJesus, Operations Manager. On 11/14/13, the remainder of the facility was inspected, accompanied by Mr. Bob Bethel, Plant Manager.

Mr. Bethel stated that the company is experiencing average production levels, operating at about 80% of capacity.

The company has recently installed eight bag-type polishing filters, immediately upstream of the final pH adjustment tank.

The company uses copper cyanide for copper plating and sodium cyanide for cadmium plating.

The company does not use TTO's in any processes or operations.

The P/T system was inspected and appeared to be in operation.

The company employs one Class 'K' licensed treatment plant operator, Mr. Javier DeJesus, Operations Manager. A second Class 'K' operator, Ms. Olga Vivero, Lab Technician, is no longer with the company.

Filter cake is shipped off-site every two weeks by Envirote. Manifests were reviewed and appeared to be in order.

Water meters were read by MWRD personnel. The company appears to be within wastewater discharge flow limits.

The company is presently running two 10-hour shifts over a five day work week, plus a four hour shift on Saturday. The company is closed on Sunday.

Environmental Protection Agency
State of Illinois

JAVIER DeJESUS

*having fulfilled the requirements therefore, is hereby awarded this
Certificate of Competency*

as an

Industrial

Wastewater Treatment Works Operator

BELMONT PLATING WORKS
PRETREATMENT
FRANKLIN PARK

Issued March 1, 2011

Douglas P. Scott

Director

BPW2001 MEDIUM
PHOS EN BATH #1
500 GAL

BELMONT PLATING WORKS 3410 N. RIVER ROAD

NORTH RIVER ROAD

NITRIC ACID
500 GAL

ELECTROLESS
NICKEL
GAS
METER

POISHING W/
DUST COLLECTOR

OFFICES
MSDS

CHEN
STOR
CAS
BATH
ROOM

BLDG. 1

RAW MATERIAL
STORAGE
DOCK

UNRACK
& PACK

BLDG. 1
WATER
METER

BEL CYANIDE CAD
BEL BRIGHT NICKEL

CLEAN
Ni

CLEANERS
&
ACIDS

BEL
COPPER
CYANIDE

Zn
CIL.

RACK
CYANIDE
CAD

RACK
TIN

CA
SUMP

CAD

RACK NICKEL

DECO
CHROME

RINSES

AIR COMPRESSORS

BOILER
ROOM

BLDG. 2

SUMP PITS
TO WWTP

CLEAN

Ca CH

401 ZINC CHLORIDE

402 ZINC CHLORIDE

ZINC CHROMATES

WASTE
WATER
TREATMENT
AREA

TREATED
DISCHARGE

SLUDGE
DRYER
BULK
HCl
5,000 GAL

WASTE
STORAGE
BULK
HNO3
1,500 GAL

OVERHEAD
DOOR

BLDG. 3

CHEM.
STORAGE
WATER SUB-
METER METER

SMALL
WWT
NOT
USED
MSDS
LAB

BATH
ROOM
BATH
ROOM

Cr 3, 6, 12

Zn
CHLORIDE

403 ZINC CHLORIDE

SUMP PITS
TO WWTP

EXIT

EXIT

EXIT

KING STREET

LEGEND

⊙ = FLOOR DRAIN TO ON-SITE W.W.T.

⊞ = ROOF DRAIN. STORMWATER ONLY

--- = STORM SEWER

--- = SANITARY/ PROCESS WASTE SEWER

--- = SEALED STORMWATER DRAIN

* THESE TANKS ARE USED FOR THE TEMPORARY
STORAGE OF PLATING CHEMICALS.

BULK HCl CONTAINMENT VOLUME = 5,200 GALS.

BULK HNO3 CONTAINMENT VOLUME = 1,610 GALS.

BULK CAUSTIC CONTAINMENT VOLUME = 1,300 GALS.
(WITH OVERFLOW TO W.W.T.P. SUMP PITS)



SCALE: NOT TO SCALE

FACILITY SITE PLAN BELMONT PLATING WORKS 3410 N. RIVER ROAD

02/27/02

FEHR-GRAHAM & ASSOCIATES
ENGINEERING AND SCIENCE CONSULTANTS

880 W. STEPHENSON ST. 1820 DAWLER RD. 410 MAIN STREET
FREEPORT, IL 61032-6088 ROCKFORD, IL 61112-1008 SAVANNAH, IL 61074
815/235-7643 815/394-4700 815/273-7400

REV. 5/12, 11/13
verified 6/08 DS
1/09 JZ
verified 7/11 mc

LPT\02\42146\42146BELMONTPLAN3

Wastewater Pretreatment Process

Legend:

A= H₂SO₄

B= Sodium Metabisulfite

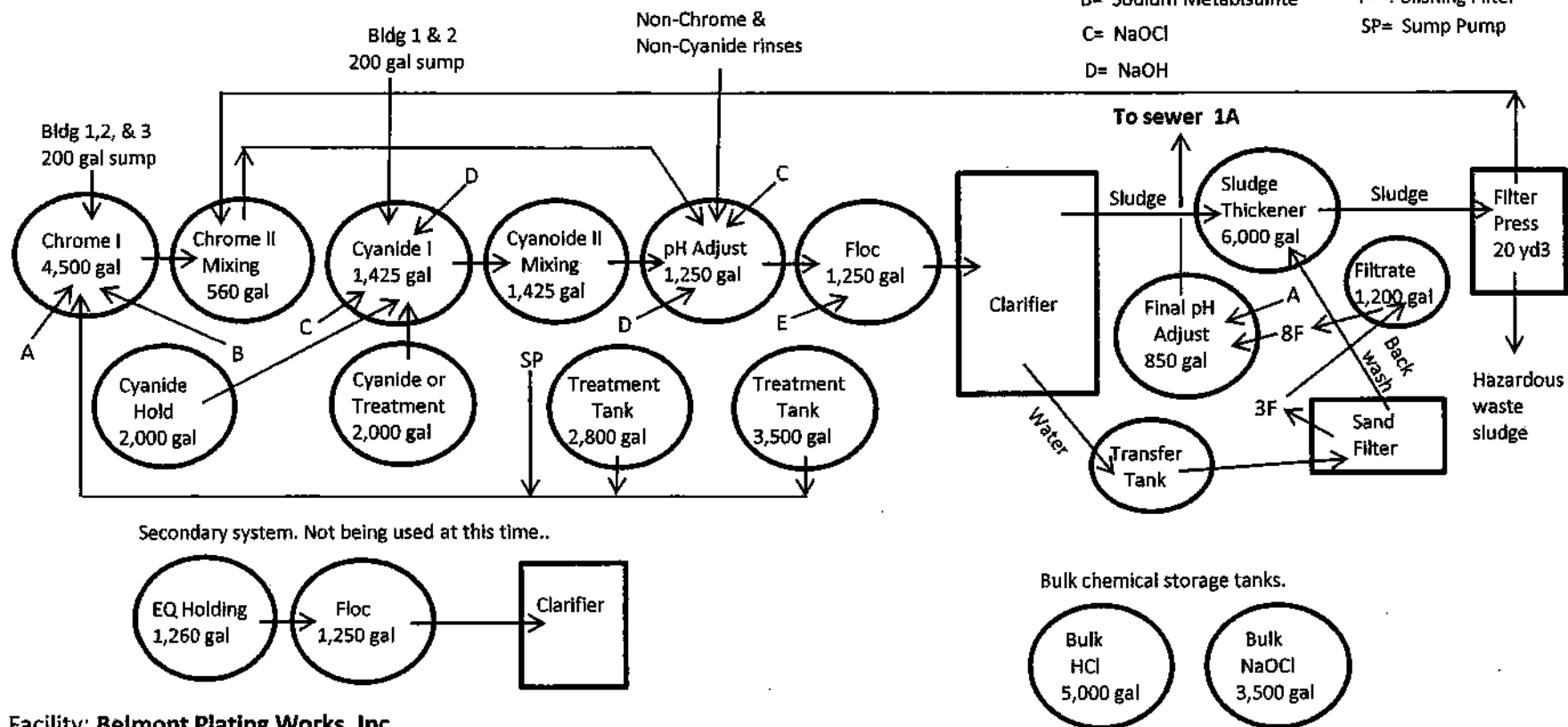
C= NaOCl

D= NaOH

E= Polymer

F= Polishing Filter

SP= Sump Pump



Facility: **Belmont Plating Works, Inc.**

Address: 3410 N River Road, Franklin Park, IL 60131

Facility ID #: 11138

Note Not drawn to scale



CGD 6/11/2013

Sampling Procedure For:
Belmont Plating Works, LLC.
3410 N. River Road
Franklin Park
USER # 11138

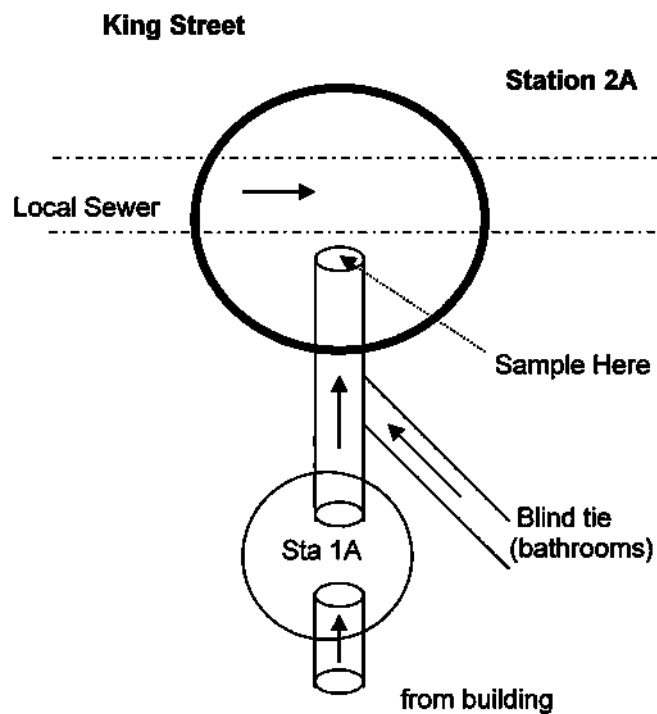
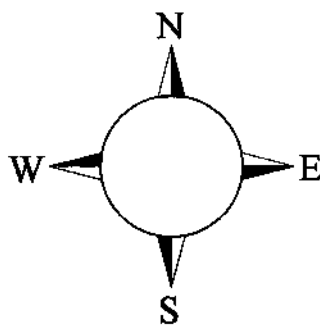
Date:
Nov., 2013

Station & Frequency 2A

Outside Building 1 in King Street
Sample from drop pipe prior to local sewer.
8 ft. pipe.
Sample every 15 minutes.

Analyses

TMM
Cn-comp.
FOG
pH
Cr6+



Special Instructions:

1. Read 4 water meters daily.
2. Company Contact: Bob Bethel, Plant Mgr.
847-678-0200 x148
615-584-1681 cell
3. If, when servicing the automatic sampler, you observe the pH to be greater than 10 or less than 5, then obtain three sets of grab samples for pH and TM. Notify the company rep. immediately, obtain his/her name and note information on log sheet. Immediately contact the supervising PCO, and inform him/her of the problem.
4. Provide split samples, if requested.

S. Spiewak, PCO I

Metropolitan Water Reclamation District of Greater Chicago

METER READING SUMMARY

From 11/4/2013 To 11/8/2013

User No: 11138 Belmont Plating Works, Inc., 3410 N River Road, Franklin Park, IL 60131

Type of Meter: Submeter - Non-regulated Process Installation Date: 03/25/1999

Serial Number: 07980258 Removal Date:

READING DATE	READING (Gallon)	DIFFERENCE (Gallon)	VOLUME (Gallon)
11/04/2013	3888100	7300	7300
11/05/2013	3895400	9600	9600
11/06/2013	3905000	8600	8600
11/07/2013	3913600	10100	10100
11/08/2013	3923700		

NUMBER OF DAYS IN THIS PERIOD: 4

AVERAGE DAILY FLOW VOLUME- Submeter - Non-regulated Process: 8900

Type of Meter: Main Incoming Installation Date: 11/07/1994

Serial Number: 31937059 Removal Date:

READING DATE	READING (cu. ft.)	DIFFERENCE (cu. ft.)	VOLUME (Gallon)
11/04/2013	0	0	0
11/08/2013	0		

NUMBER OF DAYS IN THIS PERIOD: 4

AVERAGE DAILY FLOW VOLUME- Main Incoming: 0

Type of Meter: Main Incoming Installation Date: 06/11/1997

Serial Number: 31973804new Removal Date:

READING DATE	READING (cu. ft.)	DIFFERENCE (cu. ft.)	VOLUME (Gallon)
11/04/2013	6954800	14050	105101
11/05/2013	6968850	17650	132031
11/06/2013	6986500	14460	108168
11/07/2013	7000960	14810	110786
11/08/2013	7015770		

NUMBER OF DAYS IN THIS PERIOD: 4

AVERAGE DAILY FLOW VOLUME- Main Incoming: 114022

Type of Meter: Main Incoming Installation Date: 01/26/2009

Serial Number: 60621129 Removal Date:

READING DATE	READING (cu. ft.)	DIFFERENCE (cu. ft.)	VOLUME (Gallon)
11/04/2013	2549796	1391	10405
11/05/2013	2551187	1244	9306
11/06/2013	2552431	1350	10099

User No: 11138 Belmont Plating Works, Inc., 3410 N River Road, Franklin Park, IL 60131

Type of Meter:	Main Incoming	Installation Date:	01/26/2009
Serial Number:	60621129	Removal Date:	

READING DATE	READING (cu. ft.)	DIFFERENCE (cu. ft.)	VOLUME (Gallon)
11/07/2013	2553781	1868	13974
11/08/2013	2555649		

NUMBER OF DAYS IN THIS PERIOD: 4

AVERAGE DAILY FLOW VOLUME- Main Incoming: 10946

TOTAL AVERAGE DAILY FLOW OF ALL MAIN INCOMING METERS: 124968

TOTAL AVERAGE DAILY FLOW OF ALL MAIN OUTGOING METERS: 0

Company: Belmont Plating Works

Station: 2A

Study: A/P

Address: 3410 N. River Road

Section: NC

PMD:

City: Franklin Park

User #: 11138

PCO(s) & PCT(s): Spiwak, ~~STOGINSKI~~

DATE		TIME	TOTALIZER (X 1000 GAL)	MEASURED FLOW	FM NO.	AUTO NO.	VOL. pH	FREQUENCY GALS / MIN	SAMPLES TAKEN	COMPOSITE HOURS	SAMPLE TEMP / °C	SAMPLE pH	BUCKET MEASURE	CREW INITIALS
START	11/4/13	0910				435	130	15	92	23	17	7	5	SJS
FINISH	11/5/13	0910					7							SJS
START	11/5/13	0925				435	120	15	94	24	15	7	4	SJS
FINISH	11/6/13	0900					7							SJS
START	11/6/13	0905				435	150	15	99	25	15	7+	6"	SJS
FINISH	11.7	0945					7							SJS
START	11.7	0950				435	130	15	94	23	6	6+	5 1/2	SJS
FINISH	11/8/13	0905					7+							SJS
START														
FINISH														
START														
FINISH														
START														
FINISH														

Date:	11/4/13	11/5/13	11/6/13	11-7-13	11/8/13		
Weather:	PT. SUNNY 40's	CLOUDY 40's	RAIN 50	SUNNY 30's	SUNNY 30's		
Comments:			HQ Smk Chero				
Sample Description:	CLEAR, TAN LT. SED	CLEAR, GOLD LT. SED	CLR Yell/brn LT. SED	CLEAR, TAN LT. SED			
Lab Data:	GC <input type="checkbox"/> TM <input checked="" type="checkbox"/> SPLIT <input checked="" type="checkbox"/>	GC <input type="checkbox"/> TM <input checked="" type="checkbox"/> SPLIT <input checked="" type="checkbox"/>	GC <input type="checkbox"/> TM <input checked="" type="checkbox"/> SPLIT <input checked="" type="checkbox"/>	GC <input type="checkbox"/> TM <input checked="" type="checkbox"/> SPLIT <input checked="" type="checkbox"/>	GC <input type="checkbox"/> TM <input type="checkbox"/> SPLIT <input type="checkbox"/>	GC <input type="checkbox"/> TM <input type="checkbox"/> SPLIT <input type="checkbox"/>	GC <input type="checkbox"/> TM <input type="checkbox"/> SPLIT <input type="checkbox"/>
Equip. Maintenance:							

Multiple Day Short Composite / Grab Sample Log

Station: 2A

Study: A/P

Section: NC

Pipe Size: _____

PCO(s) & PCT(s): Spiewak

[illegible]

Chain of Custody Report for:
 Belmont Plating Works, Inc.
 3410 N River Road, Franklin Park, IL 60131
 11138-2A
 04-NOV-2013 to 08-NOV-2013

08-NOV-2013 11:34

Aliquot Number	Sample Date	IWAD No	Aliquot	Samp Type	Time	Fld Off	Supervisor (PCO)	Sampler ID	Transportd by	Date Received	Time Recd	Received by	St	Rec Lab
6998375-1	11/04/13	8620L	MERCURY	COMP	23	NC	SPIEWAK_S	SPIEWAK_S	SPIEWAK_S	11/07/13	08:57	HICKERS_L	V	IWAL
6998375-2	11/04/13	8620L	METALS	COMP	23	NC	SPIEWAK_S	SPIEWAK_S	SPIEWAK_S	11/05/13	12:36	REYES_D	V	IWAL
6998376-1	11/05/13	8619L	POG	GRAB	0915	NC	SPIEWAK_S	SPIEWAK_S	SPIEWAK_S	11/05/13	12:34	REYES_D	D	IWAL
6998377-1	11/05/13	8618L	HEXCR	GRAB	0915	NC	SPIEWAK_S	SPIEWAK_S	SPIEWAK_S	11/05/13	12:34	REYES_D	D	IWAL
6998380-1	11/05/13	8677L	MERCURY	COMP	24	NC	SPIEWAK_S	SPIEWAK_S	SPIEWAK_S	11/08/13	07:34	HICKERS_L	V	IWAL
6998380-2	11/05/13	8677L	METALS	COMP	24	NC	SPIEWAK_S	SPIEWAK_S	SPIEWAK_S	11/06/13	13:41	REYES_D	V	IWAL
6998379-1	11/05/13	8617L	CN	COMP	1	NC	SPIEWAK_S	SPIEWAK_S	SPIEWAK_S	11/05/13	12:33	REYES_D	V	IWAL
6998381-1	11/06/13	8745L	MERCURY	COMP	25	NC	SPIEWAK_S	STOGINSK_S	STOGINSK_S	11/07/13	12:45	REYES_D	T	IWAL
6998381-2	11/06/13	8745L	METALS	COMP	25	NC	SPIEWAK_S	STOGINSK_S	STOGINSK_S	11/07/13	12:45	REYES_D	V	IWAL
6998378-1	11/07/13	8744L	PH	GRAB	0945	NC	SPIEWAK_S	STOGINSK_S	STOGINSK_S	11/07/13	12:45	REYES_D	V	IWAL
6998382-1	11/07/13	8808L	MERCURY	COMP	23	NC	SPIEWAK_S	SPIEWAK_S	SPIEWAK_S	11/08/13	11:16	REYES_D	T	IWAL
6998382-2	11/07/13	8808L	METALS	COMP	23	NC	SPIEWAK_S	SPIEWAK_S	SPIEWAK_S	11/08/13	11:16	REYES_D	V	IWAL

City Franklin Park

WATER METER READING SHEET

[illegible]